	Form 1449*		Docket Number:		Application Number:		
	INFORMA	TION DISCLOSURE	10/749,573				
		ATEMENT	Applicant:				
0	PEINAN	APPLICATION	Douglas K. Medema; William E. Saltzstein; Robert A. Niskanen;				
		al sheets if necessary)	Richard C. Nova	a	Group Art Unit:		
MAR 1			December 31, 20	003	Unknown		
	1 2004 2		Examiner Name:		CIRGIOWII		
E.			Unknown				
MAR 1	DEMARK CO		U.S. PATEN	NT DOCUMENTS		Class/Su	belose
) D 2	Examiner Initial	Document Number	Issue/Document Publication Date	Name		Filing I	
S)	D.1/.	3,724,455	04/03/1973	Unger		\	
		5,003,984	04/02/1991	Muraki et al.			7
		5,208,756	05/04/1993	Song			
1		5,218,367	06/08/1993	Sheffer et al.			
41.00 41.00		5,228,449	07/20/1993	Christ et al.			/
<u></u>		5,304,209	04/19/1994	Adams et al.			/
		5,348,008	09/20/1994	Bornn et al.		L = X	
		5,354,315	10/11/1994	Armstrong			
		5,512,908	04/30/1996	Herrick		/	1
7007		5,549,653	08/27/1996	Stotts et al.			
ŏ		5,555,286	09/10/1996	Tendler			
$\geq$		5,593,426	01/14/1997	Morgan et al.			
		5,607,459	03/04/1997	Paul et al.		/	
	<u> </u>	5,609,614	03/11/1997	Stotts et al.		<u>/</u>	
	-			TENT DOCUMENTS	, , , , , , , , , , , , , , , , , , ,	•	
	Examiner Initial	Document Number	Publication Date	Country	, ·	Transl	
	D. Q.	198 36 118 A1	04/15/1999	DE	· · · · · · · · · · · · · · · · · · ·	Yes	No X
•	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	44 41 907 A1	06/22/1995	DE	<u></u> _		X
		2 285 135	06/28/1995	GB		<del> </del>	
	OTHER DO	<u> </u>	•	tem, Page(s), Vol/Issue N	o., Publisher, Pla	ce of Public	ation)
	Bellsouth, "Simplified Wireless E911 Call Flow in 2001 with Phase II," <a href="http://www.bellsouthcorp.com/issues/911/chart9.html">http://www.bellsouthcorp.com/issues/911/chart9.html</a> , 1997 (4/4/2000).						
	TruePosition, Inc., TDOA Overview, "Time difference of arrival technology for locating narrowband cellular signals," <a href="http://www.trueposition.com/tdoa.htm">http://www.trueposition.com/tdoa.htm</a> , 1998-2000, (4/4/2000).					ating	
	EXAMENE	$\begin{pmatrix} \mathbf{R} \\ \mathbf{I} \end{pmatrix}$	Somo	Date Considered	3/15/0	5	
				in conformance with MPEP 60	9; Draw line through	citation if not	in

For	n 1449*		1			Application Number:		
I	FORMA	TION DISCLOSURE	1023-180US02					
	STATEMENT		Applicant:	1 William E. C. 14	C. Dalland A	Misland		
	IN AN	APPLICATION	1	Douglas K. Medema; William E. Saltzstein; Robert A. Niskanen;				
				Richard C. Nova				
	(Use sever	al sheets if necessary)	Filing Date:	002	Group Art Unit: Unknown			
			December 31, 20 Examiner Name:	003	Ulikilowii	<del> </del>		
			Unknown					
			U.S. PATEN	NT DOCUMENTS		ć Oceras	Eddor	
	kaminer Initial	Document Number	Issue/Document Publication Date	Name		Filing I Appro		
U	) ·Y:	5,609,615	03/11/1997	Sanders et al.			/	
	1	5,626,630	05/06/1997	Markowitz et al.		\ <u> </u>	/	
		5,630,209	05/13/1997	Wizgall et al.				
	1	5,647,379	07/15/1997	Meltzer			/ .	
		5,650,770	07/22/1997	Schlager et al.			/	
		5,657,487	08/12/1997	Doner			/	
		5,669,391	09/23/1997	Williams				
		5,683,432	11/04/1997	Goedeke et al.				
		5,687,734	11/18/1997	Dempsey et al.				
		5,701,328	12/23/1997	Schuchman et al.				
		5,709,712	01/20/1998	Paul et al.	_			
		5,712,619	01/27/1998	Simkin				
		5,720,770	02/24/1998	Nappholz et al.		/		
		5,731,757	03/24/1998	Layson Jr.		<u>/</u>		
'			FOREIGN PAT	TENT DOCUMENTS	,			
	aminer	Document Number Publication		Country		Transl	ation	
	Initial		Date			Yes	No	
	TUED DA	OCIMENTS (Include	a Australa as I	ton Desc(n) Val(Terre N	In Dublish or Dis	C Dublic	-4:>	
	THEK DO	COMENTS (Includin		tem, Page(s), Vol/Issue N		ce of Public	auon)	
1	Xypoint Corporation, "Model W E9-1-1 Model Legislation," <a href="http://www.xypoint.com/we911/legislation/modelact.html">http://www.xypoint.com/we911/legislation/modelact.html</a> , 1999, (4/4/2000).							
C 7	Xypoint Corporation, "FCC Final Order Docket CC 94-102, Part 1," <a href="http://www.xypoint.com/we911/legislation/fccorder1.html">http://www.xypoint.com/we911/legislation/fccorder1.html</a> , 1999, (4/4/2000).				-			
EX	EXAMINER Date Considered / /							
	(i) aux / (· lone 3/15/05							
	*Examiner: Initial if reference possidered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

a '

Form	Form 1449*		Docket Number:		Application Number:		
IN	FORMAT	rion disclosure	1023-180US02 10/749,573				
	STATEMENT		Applicant:				
	INAN	APPLICATION	Douglas K. Medema; William E. Saltzstein; Robert A. Niskanen;				
•			Richard C. Nova				
<b>'</b>	(Use several sheets if necessary)		Filing Date:	002	Group Art Unit:		
l			December 31, 20 Examiner Name:	003	Unknown		
			Unknown				
-	_ <del></del>		*····	T DOCUMENTS		(Dass)	Selelist
	aminer Initial	Document Number	Issue/Document Publication Date	Name		Filing I	Date If
1	·P.	5,732,354	03/24/1998	MacDonald		<u> </u>	
	· <del>/ · · · · · · · · · · · · · · · · · ·</del>	5,752,976	05/19/1998	Duffin et al.			
	1	5,766,232	06/16/1998	Grevious et al.			
		5,767,788	06/16/1998	Ness	<del> </del>		/
		5,782,878	07/21/1998				
		5,835,907	11/10/1998	Newman			
		5,840,020	11/24/1998	Heinonen et al.		\	
		5,843,139	12/01/1998	Goedeke et al.			
		5,872,505	02/16/1999	Wicks et al.			
		5,873,040	02/16/1999	Dunn et al.			
		5,874,897	02/23/1999	Klempau et al.		7	
		5,876,353	03/02/1999	Riff		1	
1		5,904,708	05/18/1999	Goedeke	/	,	
	·		FOREIGN PAT	TENT DOCUMENTS	/		
	aminer	Document Number Publication		Country		Translation	
<u>_</u>	nitial	<u> </u>	Date			Yes	No
			7.7.				
	<u> </u>	<u></u>					
0	THER DO	OCUMENTS (Includin	g Authors, Title of I	tem, Page(s), Vol/Issue N	io., Publisher, Plac	ce of Public	ation)
		-			**		
*Exa	EXAMINER  Date Considered  3/5/05  *Examiner: Initial if referency considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in						
confo	conformance and not considered. Include copy of this form with next communication to applicant.						

Form 1449	•	Docket Number:		Application Number:		
INFOR	MATION DISCLOSURE	1023-180US02	······································	10/749,573		
	STATEMENT	Applicant: Douglas K. Medema; William E. Saltzstein; Robert A. Niskanen;				
IN	AN APPLICATION	Richard C. Nova	•	zstem, Robert A	. MISKAHE	11,
(Use s	everal sheets if necessary)	Filing Date:		Group Art Unit:		
(537)	<u>.</u> ,,	December 31, 20	003	Unknown		•
		Examiner Name:		0.22.0		
	,	Unknown				
U.S. PATEN		T DOCUMENTS		Clouds	ubclass	
Exemina Initial		Issue/Document Publication Date	Name		Filing l	
1).//.	5,921,938	07/13/1999	Aoyama et al.		1	
	5,926,133	07/20/1999	Green Jr.			7
	5,931,791	08/03/999	Saltzstein et al.			7
	5,937,355	08/10/1999	Joong et al.	· ·	-\	1
	5,959,529	09/28/1999	Kail IV			
	5,960,337	09/28/1999	Brewster et al.			7
	5,970,414	10/19/1999	Bi et al.			
	5,971,921	10/26/1999	Timbel		X	
	5,987,329	11/16/1999	Yost et al.			
	6,002,936	12/14/1999	Roel-Ng et al.			
	6,021,330	02/01/2000	Vannucci			
	6,016,477	01/18/2000	Ehnebuske et al.		/	
V	6,021,371	02/01/2000	Fultz		<u>/</u>	
		FOREIGN PAT	TENT DOCUMENTS			
Examine	Pr Document Number	Publication	Country		Translation	
Initial		Date			Yes	No
<u></u>						
ОТНЕ	R DOCUMENTS (Includin	g Authors, Title of I	tem, Page(s), Vol/Issue N	o., Publisher, Plac	ce of Public	cation)
	-					-
				<del></del>		
EXAMI	NER /	1	Date Considered	/ /		
	) ( \ ( \ ( \ ( \ ( \ ( \ ( \ ( \ ( \ (	1m, 0	_	3/15/17	5	
*Examiner:	Initial if reference considered,	whether or not citation is	in conformance with MPEP 60	)))( Draw line through	citation if not	t in
conformanc	e and not considered. Include co	ppy of this form with next	communication to applicant.			
Based on Form PTO-FB-A820 Patent and Trademark Office, U.S. Department of Commerce (Also form PTO-1449)						

Form 1449*		Docket Number:		Application Number:			
INFO	RMATION DISCI	OSURE	1023-180US02 10/749,573				
	STATEMENT		Applicant: Douglas K. Medema; William E. Saltzstein; Robert A. Niskanen;				
Г	N AN APPLICATI	ON					
[	several sheets if nec			Richard C. Nova			
(030	several silects if flec	cosary)	Filing Date: December 31, 2	002	Group Art Unit: Unknown		
			Examiner Name:	003	Olikilowii		<del>.</del>
			Unknown				
				NT DOCUMENTS		c Ossals	sulvelase
Examiner Document Number Initial		Issue/Document Publication Date	Name		Filing Date If Appropriate		
1)·/.	6,026,30	4	02/15/2000	Hilsenrath et al.			/
7	6,026,30	5	02/15/2000	Salinger et al.			
	6,028,53	7	02/22/2000	Suman et al.			7
	6,034,63	5	03/07/2000	Gilhousen			_
	6,046,68	7	04/04/2000	Janky			
	6,047,18	2	04/04/2000	Zadeh et al.			
	6,386,88	2 B1	05/14/2002	Linberg			
		-			•	1	
			FOREIGN PAT	FENT DOCUMENTS			<del></del>
Exami	iner Document	Number	Publication	Country		Translation	
Initi		randoci	Date	Country		Yes	No
ОТН	ER DOCUMENTS	S (Includin	g Authors, Title of I	tem, Page(s), Vol/Issue N	lo., Publisher, Pla	ce of Public	cation)
						-	
EXAM	IINER	1-	1.	Date Considered	7/./		
	u Jan	<u> </u>	lope		5/15/05	) )	
*Examine	er: Initial if reference	considered,	whether or not citation is	in conformance with MPEP 6 t communication to applicant.	09; Draw line through	citation if no	t in

Page 1 of 2 Docket Number: Application Number: 10/749,573 1023-180US02 INFORMATION DISCLOSURE Applicant: **STATEMENT** Douglas K. Medema; William E. Saltzstein; Robert A. Niskanen; IN AN APPLICATION Richard C. Nova (Use several sheets if necessary) Filing Date: Group Art Unit: December 31, 2003 2652 Examiner Name: Unknown U.S. PATENT DOCUMENTS Examiner **Document Number** Issue/Document Name Initial **Publication Date** Appropriate 01/13/1987 4,635,639 Hakala et al. D.1. 5,549,115 08/27/1996 Morgan et al. 5,549,659 08/27/1996 Johansen et al. 10/07/1997 Morgan et al. 5,674,252 5,680,864 10/28/1997 Morgan et al. 5,683,423 11/04/1997 Post 5,749,902 05/12/1998 Olson et al. 5,749,913 05/12/1998 Cole 5,787,155 07/28/1998 Luna 5,836,993 11/17/1998 Cole 04/06/1999 Cyrus et al. 5,891,046 04/06/1999 5,891,049 Cyrus et al. 5,899,866 05/04/1999 Cyrus et al. 5,951,485 09/14/1999 Cyrus et al. 5,999,493 12/07/1999 Olson 6,041,257 03/21/2000 MacDuff et al. 6,047,207 04/04/2000 MacDuff et al. FOREIGN PATENT DOCUMENTS Examiner **Document Number** Publication Country Translation Initial Date Yes WO 02/060529 A2 08/08/2002 **PCT** 

OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)

EXAMINER	Date Considered			
Jan 1 Pople	3/16/05			
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in				
conformance and not considered. Include copy of this form with next communication to applicant.				

Based on Form PTO-FB-A820 (Also form PTO-1449)



## INFORMATION DISCLOSURE **STATEMENT**

IN AN APPLICATION

(Use several sheets if necessary)

Docket Number:	Application Number:
1023-180US02	10/749,573

Applicant:

Douglas K. Medema; William E. Saltzstein; Robert A. Niskanen;

Richard C. Nova

Filing Date:

Group Art Unit: December 31, 2003 2652

Examiner Name:

Unknown

		U.S. PATENT	DOCUMENTS	K)iM/Sulsa
Examiner Initial	Document Number	Issue/Document Publication Date	Name	Filing Date
[]//	6,057,758	05/02/2000	Dempsey et al.	
	6,141,584	10/31/2000	Rockwell et al.	
	6,150,951	11/21/2000	Olejniczak	
	6,201,992 B1	03/13/2001	Freeman	
	6,301,502 B1	10/09/2001	Owen et al.	
	6,304,780 B1	10/16/2001	Owen et al.	
	6,321,113 B1	11/20/2001	Parker et al.	
	6,374,138 B1	04/16/2002	Owen et al.	
	6,405,083 B1	06/11/2002	Rockwell et al.	
	6,427,083 B1	07/30/2002	Owen et al.	
7	6,438,417 B1	08/20/2002	Rockwell et al.	X
	6,493,581 B2	12/10/2002	Russell	/\
	2003/0025602 A1	02/06/2003	Medema et al.	//
	2003/0058097 A1	03/27/2003	Saltzstein et al.	
	2003/0109904 A1	06/12/2003	Silver et al.	
	6,594,634 B1	07/15/2003	Hampton et al.	
	6,597,948 B1	07/22/2003	Rockwell et al.	//
$\sqrt{}$	6,668,192 B1	12/23/2003	Parker et al.	
		FOREIGN PATEN		
Examiner	Document Number	Publication	Country	Translation
Initial	<del> </del>	Date		Yes No

EXAMINER Date Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Based on Form PTO-FB-A820 (Also form PTO-1449)

M CS	. •			Page 1	of 2
orm:1449*		Docket Number:		Application Num	ber:
3		1023-180US02			
	ATION DISCLOSURE TATEMENT	Applicant:			
		Douglas K. Med	lema; William E. Sa	ltzstein; Robert	A. Niskanen;
IN A	N APPLICATION	Richard C. Nova	a		
(Use seve	eral sheets if necessary)	Filing Date:		Group Art Unit:	
		December 31, 20	003	2652	
		Examiner Name:			
<del></del>	<u>·</u>	Unknown			0/10
	<del></del>	·	DOCUMENTS		Closet Sulvelu
Examiner Initial	Document Number	Issue/Document Publication Date	Nam	e 	Filing Date If Appropriate
J) ·['	4,635,639	01/13/1987	Hakala et al.		<b>\</b>
	5,549,115	08/27/1996	Morgan et al.		\
	5,549,659	08/27/1996	Johansen et al.	···	
	5,674,252	10/07/1997	Morgan et al.		
	5,680,864	10/28/1997	Morgan et al.		
	5,683,423	11/04/1997	Post		
	5,749,902	05/12/1998	Olson et al.		\ /_
	5,749,913	05/12/1998	Cole		\ /
	5,787,155	07/28/1998	Luna		V
	5,836,993	11/17/1998	Cole		$\wedge$
	5,891,046	04/06/1999	Cyrus et al.		
	5,891,049	04/06/1999	Cyrus et al.		
	5,899,866	05/04/1999	Cyrus et al.		
	5,951,485	09/14/1999	Cyrus et al.		
	5,999,493	12/07/1999	Olson		/
	6,041,257	03/21/2000	MacDuff et al.		
_\\	6,047,207	04/04/2000	MacDuff et al.		<u> </u>
		FOREIGN PATE	ENT DOCUMENTS		
Examiner Initial	Document Number	Publication Date	Count	try	Translation Yes No
DiP.	WO 02/060529 A2	08/08/2002	PCT		
OTHER D	OCUMENTS (Including	Authors, Title of Ite	m, Page(s), Vol/Issue l	No., Publisher, Pla	ce of Publication
XAMINI	ER	· /	Date Considered	-//	
	1 Jany (	· Pope		<u> 3/15/0</u>	5
xaminèr: In nformance at	itial if reference considered, what not considered. Include cop	ether or not citation is in	conformance with MPEP 6	i09; Draw line through	citation if not in
	PTO-FB-A820		Patent and Trademark (	Office, U.S. Departmen	t of Commerce

(Also form PTO-1449)

OTPE CONSTITUTE DE LA C
FORWARD AND

## INFORMATION DISCLOSURE **STATEMENT**

IN AN APPLICATION

(Use several sheets if necessary)

Docket Number:	Application Number:
1023-180US02	10/749,573

Applicant:

Douglas K. Medema; William E. Saltzstein; Robert A. Niskanen;

Richard C. Nova

Filing Date:

Group Art Unit:

December 31, 2003

2652

Examiner Name: Unknown

U.S.	<b>PATENT</b>	<b>DOCUMENTS</b>

( Deep / Subden

Document Number	Issue/Document Publication Date	Name _	Filing Date If Appropriate	
6,057,758	05/02/2000	Dempsey et al.		
6,141,584	10/31/2000	Rockwell et al.		
6,150,951	11/21/2000	Olejniczak		
6,201,992 B1	03/13/2001	Freeman		
6,301,502 B1	10/09/2001	Owen et al.		
6,304,780 B1	10/16/2001	Owen et al.		
6,321,113 B1	11/20/2001	Parker et al.		
6,374,138 B1	04/16/2002	Owen et al.	\ /	
6,405,083 B1	06/11/2002	Rockwell et al.		
6,427,083 B1	07/30/2002	Owen et al.	1 //	
6,438,417 B1	08/20/2002	Rockwell et al.	Ι Χ	
6,493,581 B2	12/10/2002	Russell	7	
2003/0025602 A1	02/06/2003	Medema et al.	T / \	
2003/0058097 A1	03/27/2003	Saltzstein et al.		
2003/0109904 A1	06/12/2003	Silver et al.		
6,594,634 B1	07/15/2003	Hampton et al.		
6,597,948 B1	07/22/2003	Rockwell et al.		
6,668,192 B1	12/23/2003	Parker et al.	\	
			<del> </del>	
	6,057,758 6,141,584 6,150,951 6,201,992 B1 6,301,502 B1 6,304,780 B1 6,321,113 B1 6,374,138 B1 6,405,083 B1 6,427,083 B1 6,438,417 B1 6,493,581 B2 2003/0025602 A1 2003/0058097 A1 2003/0109904 A1 6,594,634 B1 6,597,948 B1	Publication Date           6,057,758         05/02/2000           6,141,584         10/31/2000           6,150,951         11/21/2000           6,201,992 B1         03/13/2001           6,301,502 B1         10/09/2001           6,304,780 B1         10/16/2001           6,321,113 B1         11/20/2001           6,374,138 B1         04/16/2002           6,405,083 B1         06/11/2002           6,427,083 B1         07/30/2002           6,438,417 B1         08/20/2002           6,493,581 B2         12/10/2002           2003/0025602 A1         02/06/2003           2003/0058097 A1         03/27/2003           2003/0109904 A1         06/12/2003           6,594,634 B1         07/15/2003           6,597,948 B1         07/22/2003	Publication Date           6,057,758         05/02/2000         Dempsey et al.           6,141,584         10/31/2000         Rockwell et al.           6,150,951         11/21/2000         Olejniczak           6,201,992 B1         03/13/2001         Freeman           6,301,502 B1         10/09/2001         Owen et al.           6,304,780 B1         10/16/2001         Owen et al.           6,321,113 B1         11/20/2001         Parker et al.           6,374,138 B1         04/16/2002         Owen et al.           6,405,083 B1         06/11/2002         Rockwell et al.           6,427,083 B1         07/30/2002         Owen et al.           6,438,417 B1         08/20/2002         Rockwell et al.           6,493,581 B2         12/10/2002         Russell           2003/0025602 A1         02/06/2003         Medema et al.           2003/0058097 A1         03/27/2003         Saltzstein et al.           2003/0109904 A1         06/12/2003         Silver et al.           6,594,634 B1         07/15/2003         Hampton et al.           6,597,948 B1         07/22/2003         Rockwell et al.	

## FOREIGN PATENT DOCUMENTS

Examiner	Document Number	Publication	Country	Translation	
Initial		Date		Yes	No

OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)

EXAMINER **Date Considered** 

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Based on Form PTO-FB-A820 (Also form PTO-1449)